

4001400 CONCRETE STRUCTURES
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

John Westphal
414-4141
John.Westphal@dot.state.fl.us

Comments: (4-24-19, Internal)

I have concerns with allowing a method of concrete strength verification that is not reliant upon test cylinders. Perhaps this would be best advanced as a Developmental Spec first. I'll discuss with SMO further.

Response: Current Specification language allows for the development of a Strength versus Time Curve (S/T Curve) in lieu of actual release cylinders. Both the S/T Curve and the Maturity Curve are developed with actual cylinder breaks tested over time. The Maturity Curve however measure the internal concrete temperature in development of the curve. In practice, the use of the Maturity requires the temperature monitoring of the actual structure providing a more accurate prediction of the in-place strength than the S/T Curve. Maturity is also currently accepted for form removal of precast elements as well as predicting the strength for pre-stress detensioning.

No Change Made.
